

### THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

South Dakota Agricultural Experiment Station

LICENS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARF) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT, FOR BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NEW OFFICE OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

#### WHEAT, COMMON

'Crimson'

In Jestimonn Mucrost, I have hereunto set my hand and caused the seal of the Plant Unristre Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of April, in the year of our Lord two thousand one.

Mark Post

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service f Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT (Instructions and information coll	VARIETY PROTECTION lection burden statement on re	CERTIFICATI verse)	APPlication is required in order to determine if a plant variety protection certificate is (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C.					
1. NAME OF OWNER  South Dakota	Agricultural Exper	iment Sta	tion	2. TEMPORARY DESIGNAT EXPERIMENTAL NAME SD89153	ION OR	3. VARIETY NAME Crimson		
4. ADDRESS (Street and No., or R.F.D. No.	o., City, State, and ZIP Code, and Countr	γį		5. TELEPHONE (include are	a code)	FOR OFFICIAL USE ONLY		
South Dakota Ag Hall 129 Brookings, SD	State University 57007			6. FAX (Include area code)		PVPO NUMBER 980368		
Z JE TUS OMNIEG MANEG IG NOT A TOTAL	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	605-688-6065		FILING DATE		
7. IF THE OWNER NAMED IS NOT A "PER ORGANIZATION (corporation, partnershi, Agricultural Exper	ison, GIVE FORM OF p, association, etc.) iment Station	8. IF INCORPORA STATE OF INCO	TED, GIVE DRPORATION	9. DATE OF INCORPORATION N/A	М	8-27-98		
SD Ag. Exp. St	hart, Director [ tation, Box 2207 F State University N	or. Amir I	brahim, W ence Depar Box 2140-	. Wheat Breeder tment C, SDSU		FILING AND EXAMINATION FEES:  \$ 2450.00  DATE 8-27-98		
						\$ 320 S		
. TELEPHONE (Include area code) (605) 688~4453	12. FAX (Include area code) (605) 688-4452	13. E-MAI Amir	_			IND (Common Name) ed Winter Wheat		
g. X Filing and Examination Fee (\$2, States" (Mail to the Plant Variety	History of the Variety ness of Variety of the Variety (Optional) is of the Owner's Ownership intreated seeds or, for tuber propagated if be depositied and maintained in an app 705), made payable to "Treasurer of the Protection Office)	varieties, proved public United	20. DOES THE OW VARIETY BE LITTLE OF THE OW VARIETY BE LITTLE OW LIMITED AS TO IF YES, SPECIF NUMBER 1, 2, 3	(If 'yes', answer items 20 ad 21 below)  MER SPECIFY THAT SEED OF  MITED AS TO NUMBER OF CL  I CLASSES? FOUNDATI  NER SPECIFY THAT THE CLASINUMBER OF GENERATIONS:  Y THE	THIS ASSES? ON RE	TYPOTECTION ACT)  O (If "no," go to item 22)  YES Ä NO  GISTERED CERTIFIED  YES NO  REGISTERED CERTIFIED		
HAS THE VARIETY (INCLUDING ANY HAF FROM THIS VARIETY BEEN SOLD, DISPONDENCE OF THE COUNTRIES?  VES U.S.A.  Sept 1, 1997  IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUM	DSED OF, TRANSFERRED, OR USED II	N THE U. S. OR	IF YES, GIVE CO	Y OR ANY COMPONENT OF TI BHT ( <i>PLANT BREEDER'S RIGH</i> DUNTRY, DATE OF FILING OR IMBER. ( <i>Please use space indi</i>	T OR PATEN	NO ASSIGNED		
The owners declare that a viable sample of for a tuber propagated variety a tissue culture. The undersigned owner(s) is(are) the owner, and is entitled to protection under the provis Owner(s) is(are) informed that false represe	r of this sexually reproduced or tuber pro- tions of Section 42 of the Plant Variety Pr	pagated plant variety otection Act.	, and believe(s) that	upon request in accordance with rufficate. the variety is new, distinct, unifo	such regulat	tions as may be applicable, or eas required in Section 42,		
NATURE OF OWNER	she		SIGNATURE OF OW	NER				
Dr. Kevin Kephart		<u></u>	NAME (Please print o	or type)				
Director, SD Ag. E	DATE  Exp. Station 02/8/	01	CAPACITY OR TITLE	<u> </u>		DATE		

# EXHIBIT A Crimson (SD89153) Origin and Breeding History of the Variety

Crimson was selected as an F<sub>5:6</sub> line from the cross 'TAM-105'/'Winoka' made in 1983. The cross (coded X83229) was advanced to the F<sub>5</sub> generation with a bulk breeding procedure. The F<sub>1</sub> plants were grown in the greenhouse in Brookings, South Dakota in 1984 and advanced to the F<sub>2</sub> generation without deliberate selection. The F<sub>2</sub> populations were grown in Brookings and Highmore, South Dakota and selections were made based on grain yield, test weight, pedigree, disease resistance, maturity, plant height, and resistance to lodging. The F<sub>3</sub> generation was grown in Brookings and Dakota Lakes Research Farm near Pierre, South Dakota, and about 100 heads were picked from the most promising populations using the same traits with which the F<sub>2</sub> bulks were advanced. The head rows were planted in Dakota Lakes Research Farm near Pierre, South Dakota in 1988 and selection among these rows was done based on maturity, pedigree, and resistance to lodging and diseases. Crimson was identified as experimental line SD89153 in 1989. Crimson was then grown in the early yield trial in Brookings, Selby, and Winner, South Dakota. Selection at this generation was based on yield, test weight, disease resistance, and quality characteristics. The most promising lines were advanced to the preliminary yield trial (5 locations) followed by the advanced yield trial the following year (6 locations).

Crimson (SD89153) has been tested in advanced yield trials of the South Dakota Winter Wheat Breeding Program since 1992, the South Dakota Crops Performance Testing (CPT) Variety Trial since 1994 and the Northern Regional Performance Nursery (NRPN) from 1994-1996. Crimson was also tested in the Wheat Quality Council Small-Scale Testing program in 1996 and 1997. Breeder seed, produced in 1995-1996, originated from a purification program in 1995-1996 (F<sub>11</sub> generation) to remove off-types by roguing. Foundation seed was produced in 1996-1997.

Crimson has been uniform and stable for all morphological characters (such as maturity and plant height) during the past four generations of selfing and increase. A tall (10 cm taller) bronze-chaffed variant was identified in the breeder seed at a frequency of approximately 0.06%. A tall (10 cm taller) white-chaffed variant was identified in breeder seed at a frequency of 0.05%. A white-chaffed variant of similar plant height was identified in breeder seed at a frequency of 0.2%. Up to 0.5% variant plants may be encountered in subsequent generations.

## EXHIBIT B Crimson (SD89153) Statement of Distinctness

Crimson is most similar to the hard red winter wheat cultivar 'Rose', but differs in the following characteristics:

- 1) **Mixograph Mix Time**: Crimson has a shorter  $(2.7 \pm 0.3 \text{ min}; n=4)$  mixograph mix time than Rose  $(3.3 \pm 0.2 \text{ min}; n=4)$ .
- 2) **Grain Yield**: Crimson has 2.1 LB/ACRE more grain yield than Rose, when recorded directly from the combine (Table 1).
- 3) **Test Weight:** Crimson has 0.6 LB/Bu more test weight than Rose, when recorded directly from the combine (Table 1).
- 4) **Polyacrylamide Gel Electrophoresis (PAGE)**: Polyacrylamide Gel Electrophoresis shows that Crimson and Rose have distinctly different seed storage protein banding patterns. (Photograph 1). The arrows on the photograph point to bands that are present in Rose but missing in Crimson and vice versa.

The PVP office ran a database search to determine the novelty of Crimson and found similarities with the variety 'McGuire'. Polyacrylamide Gel Electrophoresis shows that Crimson and McGuire have distinctly different seed storage protein banding patterns. (Photograph 2). The arrows on the photograph point to bands that are present in Crimson but missing in McGuire and vice versa. A urea Polyacrylamide Gel Electrophoresis also shows that Crimson and McGuire have distinctly different seed storage protein banding patterns (Photograph 3). The arrows on the photograph point to bands that are present in Crimson but missing in McGuire and vice versa

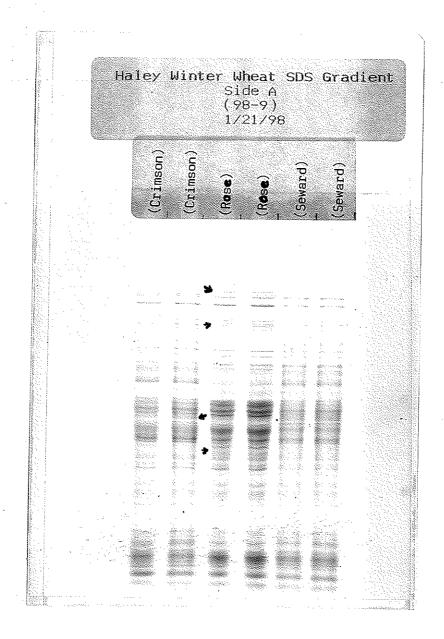
Davis, B. 1964. Disc electrophoresis. II. Method and application to human serum protein. Ann. New York Acad. Sci. 121:404-427.

Table 1. South Dakota State University, Winter Wheat Breeding Trials Combined Over Locations and Years.

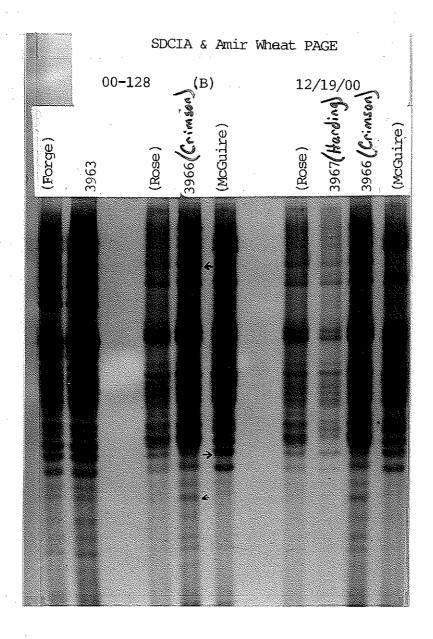
		Grain	Yield	(bu/a	ı)	Т	est W	eight	(lb/b	u)		Hea	ding (c	lays)		Pl	ant H	eight	(inch	es)
	94	95	96	97	94- 97	94	95	96	97	94- 97	94	95	96	97	94- 97	94	95	96	97	94- 97
	(12)	(11)	(8)	(5)	(36)	(12)	(11)	(8)	(5)	(36)	(2)	(5)	(1)	(3)	(11)	(8)	(11)	(8)	(4)	(31)
Crimson	43.5	47.3	56.4	56.0	49.3	61.9	61.8	61,7	60,7	61.7	160.0	166.1	165.3	165.6	164.8	27.7	36.1	34.3	35.6	33.4
Rose	41.1	45.3	55,9	52,1	47,2	61.0	61.3	61.5	60.5	61.1	160.1	166.3	166.0	166.1	165.1	28.2	36.1	35,2	35.1	33.7
Seward	43.5	44.8	55.2	49.0	47.3	59.7	58.9	59.2	57.4	59,0	161,9	167.4	171.0	169.8	167.4	31.6	38.8	37.2	39.6	36.6
CV%	17.4	17.5	12.6	15.0	16.6	2.8	2.3	2.8	2.0	2.6	1.0	0.7	1.4	1.1	1.0	9.4	6.7	6.4	6.1	8.5
LSD (.05)	2.3	3,0	2.8	4.2	1.6	0,6	0,5	0.7	0.6	0.3	1.3	0,6	2.1	1.2	0.6	1.1	0.8	0.9	1.2	0.6

N.B.: Figures in parentheses indicate the number of locations that data was collected from.

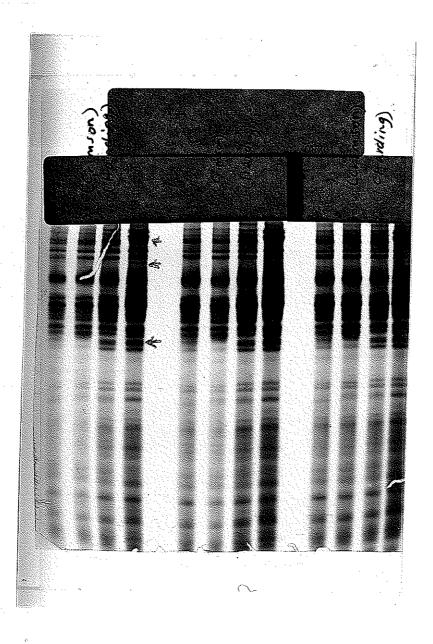
Photograph 1. Acid polyacrylamide gel electrophoresis (PAGE) of hard red winter wheat cultivars Crimson, Rose, and Seward. The Acid PAGE was conducted by Dr. Brent Turnipseed, Seed Testing Lab, Plant Science Department, South Dakota State University.



Photograph 2. Acid polyacrylamide gel electrophoresis (PAGE) of hard red winter wheat cultivars Crimson, McGuire, Rose, and Harding. The Acid PAGE was conducted by Dr. Brent Turnipseed, Seed Testing Lab, Plant Science Department, South Dakota State University.



Photograph 3. Urea polyacrylamide gel electrophoresis (PAGE) of hard red winter wheat cultivars Crimson, McGuire, Rose, and Harding. The Urea PAGE was conducted by Ms. Mary Thompson, Seed Testing Lab, Plant Science Department, South Dakota State University.



Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

#### **OBJECTIVE DESCRIPTION OF VARIETY** WHEAT (Triticum spp.)

SOUTH Dakota Agricultural Experiment Station   SOUTH Dakota Agricultural Experiment Station   FOR OFFICIAL USE ONLY			•		•	•	
ADDRESS (Street and No. or 80 No., Cop., Sune, and Exp Cain)  SOUTH Dakota State University Ag Hall 129 Brookings, SD 57007  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietate character of this variety in the boxes below. Place a zero in the first box (e.g. [5] 7] or [5]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters bland the based on a minimum of 109 plants. Comparative data should be based on a minimum of 109 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant color; designate system used: Please answer all questions for your variety; lack of response may delay progress of your application.  I. KIND:  1	• • • •			·	FOR OFFICIAL USE ONLY		
South Dakota State University Ag Hall 129 Brookings, SD 57007  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varieties of this variety in the boxes below. Place a zero in the first box (e.g. [7]7] or [77]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters due to boxes below. Please a zero in the first box (e.g. [7]7] or [77]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters due to boxes below. Please answer all questions for your variety; lack of response may delay progress of your application.  1. KIND:  1	Sou	ıth Dakota Agriculi	tural Experiment S	tation			
South Dakota State University Ag Hall 129 Brookings, SD 57007  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below.  PRICE are in the first box (e.g. [3 [2] or [3 [2]]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 10 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant color; designate system used:  1. KIND:  1	ADDRESS (Street and No. or RD !	No., City, State, and Zip Code)			98003	68	
Ag Hall 129 Brookings, SD 57007  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varient senter of this variety in the boxes below.  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varient senter of this variety in the boxes below.  Pleace aren in the first box (e.g. [0] 2] or [0] when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colority, designate system used:  Please answer all questions for your variety; lack of response may delay progress of your application.  I. KIND:  1	South Da	ikota State Univers	:ifv				
FLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. [o 1213] or [o 157]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant color; designate system used:  Please answer all questions for your variety; lack of response may delay progress of your application.  1. KIND:  1	Ag Hall	129	,	<u> </u>	Crimso	n	
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (c.g. []]] or []] when number is either 99 or less or 90 or less respectively. Data for quantifactive plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:    Replace answer all questions for your variety; lack of response may delay progress of your application.    I	Brooking	s, SD 57007			4		
1 1=Common 2=Durum 3=Club 4=Other (SPECIFY):  2 VERNALIZATION:  2 1=Spring 2=Winter 3=Other (SPECIFY):  3 COLEOPTILE ANTHOCYANIN:  1 1=Absent 2=Present  4 JUVENILE PLANT GROWTH:  1 1=Prostrate 2=Semi-erect 3=Erect  5 PLANT COLOR (boot stage):  1 1 = Yellow-Green 2 = Green 3 = Blue-Green  6 FLAG LEAF (boot stage):  1 1 = Erect 2 = Recurved 2 1 = Not Twisted 2 = Twisted  7 EAR EMERGENCE:  Number of Days Earlier Than  Nekota	Place a zero in the first box a minimum of 100 plants. may be used to determine p	(e.g. 0 9 9 or 0 9 ) who Comparative data should be dete plant colors; designate system use	en number is either 99 or less or mined from varieties entered in d:	9 or less respectively. Da the same trial. Royal Ho	aracter of this variety in the	boxes below. racters should be bas	sed on ard
2. VERNALIZATION:  2	1. KIND:						
2 1=Spring 2=Winter 3=Other (SPECIFY):	1	I=Common	2=Durum	3=Club	4=Other (	SPECIFY):	
3. COLEOPTILE ANTHOCYANIN:  1	2. VERNALIZATIO	DN:	· · · · · · · · · · · · · · · · · · ·		·		
1 I=Absent 2=Present  4. JUVENILE PLANT GROWTH:  1 1=Prostrate 2=Semi-erect 3=Erect  5. PLANT COLOR (boot stage):  1 1 = Yellow-Green 2 = Green 3 = Blue-Green  6. FLAG LEAF (boot stage):  1 1 = Erect 2 = Recurved 2 1 = Not Twisted 2 = Twisted  7. EAR EMERGENCE:    Number of Days Earlier Than   Roughrider   Nekota	2	1=Spring	2=Winter	3=Other (SPI	ECIFY) :		<u> </u>
4. JUVENILE PLANT GROWTH:  1	3. COLEOPTILE A	NTHOCYANIN:					·
1 1=Prostrate 2=Semi-erect 3=Erect  5. PLANT COLOR (boot stage):  1	1	1=Absent	2=Present				
5. PLANT COLOR (boot stage):  1	4. JUVENILE PLAN	NT GROWTH:					
1		1=Prostrate	2=Semi-erect	3=Erect			
6. FLAG LEAF (boot stage):  1	5. PLANT COLOR	(boot stage):					
1 = Erect 2 = Recurved 2 1 = Not Twisted 2 = Twisted  7. EAR EMERGENCE:  Roughrider  Nekota	1	1 = Yellow-Green	2 = Green	3 = Blue-Gree	n		
7. EAR EMERGENCE:  Roughrider  O 2 Number of Days Earlier Than  Nekota	6. FLAG LEAF (bo	ot stage):					
Roughrider  O 2 Number of Days Earlier Than  Nekota	1	1 = Erect	2 = Recurved	2	1 = Not Twisted	2 = Twisted	
0 2 Number of Days Earlier Than Nekota	7. EAR EMERGEN	CE:	Doughaidor				
Number of Days Later Than  Nekota  *	0 2	Number of Days Earl					*
and the state of t		Number of Days Late	Nekota er Than	. v.			
&T-470-6 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6 0a Replaces I MGS-470-6 (6-82) which is obsolete.					· · · · · · · · · · · · · · · · · · ·		7

S&T-470-6 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a Replaces I MGS-470-6 (6-82) which is obsolete

8.	ANTHER COLOR:					
· -	1 =	Yellow	2 = Purple			
9.	PLANT HEIGHT (from	soil to top of hea	d, excluding awns):		, * * * * * * * * * * * * * * * * * * *	
	1 2 cm	Tailer Than	Nekota			<b>.</b>
		Shorter Than	Roughrider		·	•
	[0].5			<ul> <li>Relative to a PVPO-A</li> </ul>	pproved Commercial Variety Gro	wn in the Same Trial
10.	STEM:	•				
•	A. ANTHOCYANI	N		D. INTERNODE (SP.	ECIFY NUMBER) 5	
	1 = Absent	2=Present		1= Hollow	2=Semi-solid	3=Solid
	B. WAXY BLOOM			E. PEDUNCLE		
٠	2 1=Absent	2=Present		2 1=Absent	2=Present	
	C. HAIRINESS (la	st internode of ra	chis)	13 cm Length		
	1=Absent	2=Present	÷.			
11.	HEAD (at Maturity):		······································			
	A. DENSITY			C. CURVATURE		
	2 1=Lax 3= Dense	2=Middense	·	2 1 = Erect	2 = Inclined	3 = Recurved
	B. SHAPE			D. AWNEDNESS		
	$ \begin{array}{c} 1 = \text{Tapering} \\ 3 = \text{Clavate} \end{array} $	2= Strap 4 = Other (SI	PECIFY):	1 = Awnless 3 = Awnletted	2 = Apically Awnletted 4 = Awned	
12.	GLUMES (at Maturity)					
	A. COLOR			C. BEAK		
	3 $1 = White$	2 = Tan		3 1 = Ob		
	3 = Other (S)	PECIFY) :	Bronze	3 =Acu	ıminate	
	B. SHOULDER	•		D. LENGTH		
	1 = Wanting 3 = Rounded 5 = Elevated	2 = Oblique 4 = Square 6 = Apiculate			ort 2 = Medium .7mm) (ca. 8mm) ng (ca. 9mm)	

12. C	GLUMES	S (at Maturity) Continued:		
	E. W	'IDTH		
	1	1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm 3 = Wide (ca. 4mm)	п)	
13. S	EED:			
	A. SI	НАРЕ	C. BR	RUSH
	3	1 = Ovate 2 = Oval 3 = Elliptical	2	1=Short 2=Medium 3=Long
				1 = Not Collared 2 = Collared
	B. CI	HEEK	D. CR	EASE
	2	1=Rounded 2=Angular	1	<ul> <li>1 = Width 60% or less of Kernel</li> <li>2 = Width 80% or less of Kernel</li> <li>3 = Width Nearly as Wide as Kernel</li> </ul>
	• •		1	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel
•	E. Col	or	G. PH	ENOL REACTION (see instructions):
	3	1=White 2= Amber 3= Red 4= OTHER (Specify)		1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black
	F. TE	XTURE		
		1=Hard 2=Soft		
14. DI	SEASE:	(0=Not Tested; 1=Susceptible; 2=Resist	ant; 3	=Intermediate; 4=Tolerant)
		PLEASE INDICATE THE SPECI	FIC RAC	CE OR STRAIN TESTED
	3	Stem Rust (Puccinia graminis f. sp. tritici)	1	Leaf Rust (Puccinia recondita f. sp. tritici)
		Stripe Rust (Puccinia striiformis)	0	Loose Smut (Ustilago tritici)
	2	Tan Spot (Pyrenophora tritici-repentis)	0	Flag Smut (Urocystis agropyri)
	0	Halo Spot (Selenophoma donacis)		Common Bunt (Tilletia tritici or T. laevis)
	0	Septoria nodorum (Glume Blotch)	0	Dwarf Bunt (Tilletia controversa)
	0	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)
·	1	Septoria tritici (Speckled Leaf Blotch)	0	Powdery Mildew (Erysiphe graminis f. sp. tritici)
	3	Scab (Fusarium spp.)	0	"Snow Molds"

9800	36	9
------	----	---

14.	Disea	se (Continued)	(0=Not Tested;	1=Susceptible;	2=	Resistant;	3=Intermediate;	4=Tolerant)	200
		4	PLEASE IN	DICATE THE	SPECI	FIC RACE	OR STRAIN TEST		
	0	"Black Point"	(Kernel Smudge)		4	Common Bipolaris	Root Rot <i>(Fusariun</i> spp.)	n, Cochliobolus and	
· .	0	Barley Yellow	Dwarf Virus (BYDV	) [	0	Rhizocton	ia Root Rot <i>(Rhizod</i>	ctonia solani)	
	0	Soilborne Mos	aic Virus (SBMV)		0	Black Cha	aff (Xanthomonas co	ampestris pv. translu	(cens)
	0	Wheat Yellow	(Spindle Streak) Mos	aic Virus	0	Bacterial syringae)	Leaf Blight <i>(Pseudo</i>	monas syringae pv.	
	0	Wheat Streak	Mosaic Virus (WSM	v) [		Other (SI	PECIFY)		
क्राक्ष्मकः.*		Other (SPECI	FY)	]		Other (SI	PECIFY)		
		Other (SPECI	FY)	_		Other (SF	PECIFY)		
		Other (SPECI	FY)			Other (SP	PECIFY)		
15.	INSECT:	(0=Not Tes	ted; 1=Susceptible	; 2=Resistan	t; 3=	=Intermedia	ate; 4=Tolerant)		
			PLEASE S	SPECIFY BIOT	YPE (	where need	ed)		
	1	Hessian Fly (M	(ayetiola destructor)	. [		Other (SP	ECIFY)		
	0	Stem Sawfly (C	Cephus spp.)			Other (SP	ECIFY)		
	0	Cereal Leaf Be	etle <i>(Oulema melanop</i>	pa) [		Other (SP	ECIFY)		
	0	Russian Aphid	(Diuraphis noxia			Other (SP	ECIFY)		
•	0	Greenbug (Sch	izaphis graminum)			Other (SP	ECIFY)		•
	0	Aphids				Other (SP	ECIFY)		
16.	ADDITION	AL INFÓRMAT	TION ON ANY ITEM	(AROVE OD	CENE	DAT COM	MENTS		

## Exhibit D Crimson (SD89153) Additional Description of the Variety

The following additional descriptive information is presented:

- 1) Release notice of Crimson.
- 2) Table 1: Yield, test weight, heading, and plant height data of Crimson in the South Dakota Crops Performance Testing (CPT) variety trial.
- 3) Table 2: Yield performance data of Crimson in the South Dakota Crops Performance Testing (CPT) variety trial at individual locations.
- 4) Table 3. Test weight data of Crimson in the South Dakota Crops Performance Testing (CPT) variety trial.
- 5) Table 4: Agronomic and protein data of Crimson in the South Dakota Crops Performance Testing (CPT) variety trial.
- 6) Table 5: Milling and baking data of Crimson in the South Dakota Crops Performance Testing.

### SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION SOUTH DAKOTA STATE UNIVERSITY PLANT SCIENCE DEPARTMENT

#### Release of CRIMSON Hard Red Winter Wheat

'Crimson' hard red winter wheat was developed by the South Dakota Agricultural Experiment Station and released to seed producers in the fall of 1997. Crimson is an awned, red-glumed, medium-late maturity, standard height hard red winter wheat with good end-use quality characteristics and superior yield performance in its maturity range. The name Crimson was chosen to highlight its red chaff color, a trait in South Dakota most commonly associated with 'Rose' winter wheat.

Crimson was selected (as an F<sub>5</sub>-derived line in the F<sub>6</sub> generation) from the cross 'TAM-105'/'Winoka', made in 1983 by Dr. Jeffrey Gellner. Current breeder seed originated from a purification program in 1995-1996 to remove off-types by roguing; up to 1% white-chaffed variants have been identified in breeder-seed production fields. Crimson was identified (as experimental line SD89153) in 1989 and has been tested in the South Dakota Crops Performance Testing (CPT) Variety Trial since 1994 and the Northern Regional Performance Nursery from 1994-1996. In four years of statewide testing in the South Dakota CPT (1994-1997; 32 environments), Crimson (52 bu/a) was higher yielding than available varieties in its maturity range, including Rose (50 bu/a), Seward (49 bu/a), and Roughrider (46 bu/a). Over these same testing environments, Crimson (61.6 lb/bu) exhibited very high and stable test weight characteristics with higher test weight than any other entry tested, including Rose (61.2 lb/bu), Roughrider (60.7 lb/bu), Arapahoe (59.5 lb/bu), and Seward (58.8 lb/bu).

In addition to its high test weight, Crimson has above-average end-use quality characteristics. Composite milling and baking data (provided by the USDA-ARS Hard Winter Wheat Quality Laboratory, Manhattan, KS) from the Northern Regional Performance Nursery (1994-1996) and the South Dakota Advanced Yield Trial (1994-1996) identified Crimson as a wheat with medium-sized kernels with average kernel weight, average flour ash and flour extraction, and high kernel hardness scores. Baking tests from these nurseries identified Crimson as a wheat with high flour protein, high water absorption with average mixing time, average mixing tolerance, and good loaf volume. Crumb grain characteristics from experimental and commercial baking tests have been rated as good.

In South Dakota, Crimson is a medium-late maturity wheat, heading 5 days earlier than Seward, 1 days earlier than Roughrider, similar to Rose, 1 day later than Arapahoe, and 4 days later than Nekota. Plant height of Crimson is medium-tall, 3 inches shorter than Seward, 2 inches shorter than Roughrider, similar to Rose, 2 inches taller than Arapahoe, and 5 inches taller than Nekota. Crimson is moderately resistant to prevalent races of the stem rust pathogen (data provided by USDA-ARS Cereal Rust Laboratory, St. Paul, MN and the South Dakota State University Small Grains Pathology Program), and is susceptible to leaf rust. Crimson is resistant in greenhouse seedling screening tests with South Dakota isolates of the *Septoria* leaf blotch pathogen and has shown good leaf spotting scores in field nurseries. Greenhouse seedlings screening with South Dakota isolates of wheat streak mosaic virus suggest a moderate level of resistance. Crimson is susceptible to the Great Plains Biotype of Hessian Fly (data provided by USDA-ARS Plant Science and Entomology Research Unit, Manhattan, KS). The coleoptile length of SD89153 is very long (98% of Scout 66) and the straw strength is good (slightly better than Rose). Available data suggest that the winterhardiness of Crimson is good.

The South Dakota Foundation Seed Division (Plant Science Department, South Dakota State University, Brookings, SD 57007) had foundation seed of Crimson available to qualified seed producers for planting in fall 1997. The seed classes will be breeder, foundation, registered, and certified. Crimson will be submitted for registration and plant variety protection under P.L. 910577 with the certification option.

Table 1. South Dakota State University, Winter Wheat Breeding Trials Combined over Locations and Years.

		Grain	Grain Yield (bu/a)	(a)			Test W	Test Weight (lb/bu)	(I)			Head	Heading (days)		$\mid$		Plant	Direct Height Cont.		
	1994	1005	1996	1007	0.40	1001	3001	7001		1							I IOILE II	eigiit (arca	(8)	
		6661	0221	1661	<u>}</u>	4	0661	1996	1997	94-97	1994	1995	1996	1997	4-97	1994	1995	1996	1997	94-97
	(12)	(II)	⊗	(2)	(36)	(13)	(11)	8	(5)	(36)	(3)	(5)	Ξ	(3)	(11)	(8)	(11)	(8)	4	(31)
Alliance	41.3	55.5	54.0	56.2	50.5	59.6	59.7	59.2	56.9	59.2	157.0	162,5	160.5	163.6	1616	٥	32.8	20.6	016	
Arapahoe	42.0	50.3	58.8	61.9	51.0	60.1	59.7	59.9	58.3	59.7	157.6	164.4	164.8	1651	1634	226	9 6	0,77	0.1.0	0.7.0
Crimson	43.5	47.3	56.4	56.0	49.3	61.9	61.8	61.7	60.7	61.7	160.0	166.1	165.3	1,551	1,001	) t	0.00	3.5.1	33.0	51.0
Dawn	39.0	46.9	50.0	50.2	45.4	606	603	507	50.1	1 02	157 5	1001	201	0.00	0.1	/ 17	70°	54.3	35.6	33.4
Malack							9	7.7.1	1.60	1.00	57/57		4.	25.	163.1	26.0	32.7	31.0	32.4	30.5
INCKOLS		23.8	4. 4.	29.8	55.3		61.0	8.09	59.1	60.5		163.0	162.3	163.1	162.9		32,0	29.0	30.9	30.8
Niobrara		51.7	54.1	52,4	52.6		59.2	58.3	57.1	58.5		163.2	163.8	165.6	164.1		34.2	32.0	33.6	33.3
Rose	41.1	45.3	55.9	52.1	47.2	61.0	61.3	61.5	60.5	61.1	160.1	166.3	166.0	166.1	165.1	28.2	36.1	35.2	35.1	33.7
Roughrider	36.5	35.8	57.3	50.7	42.9	90'6	60.4	61.8	59.4	9.09	162.1	167.5	167.0	168.3	166.7	31.3	38.2	39.1	404	27.0
Scout66	37.7	45.6	49.7	47.8	43.2	61.3	61.0	8.09	59.7	6'09	155.1	163.6	163.3	163.9	162.1	29.0	38.1	36.0	18.4	2.7.5
Seward	43.5	44.8	55.2	49.0	47.3	59.7	58.9	59.2	57.4	59.0	161.9	167.4	171.0	169.8	67.4	31.6	0 00	27.2	20.5	2,00
Siouxland	37.0	47.4	57.6	55.6	47.4	59.9	59.6	60.4	58.7	8.65	157.1	165.1	163.8	164.5	163.4	28.7	373	340	27.3	37.5
TAM 107	37.4	55.1	47.0	6'05	46.8	58.9	59.8	58.8	56.6	58.8	152.8	162.1	160.0	161.8	160.1	23.0	31.7	27.2	28.5	27.0
Tandem	42.7	48.3	57.7	52.6	49.1	61.4	61.1	61.1	60.1	61.1	158.0	164.8	164.5	165.0	163.6	26.8	34.7	34.3	35.8	32.7
Vista	40.9	50,6	48.4	57.5	47.9	29.7	59.8	58.7	58.2	59.3	156.9	163.4	162.3	164.2	162.3	23.4	30.6	27.8	29.2	27.8
% AO	17.4	17.5	12.6	15.0	16.6	2.8	2.3	2.8	2.0	2.6	1.0	0.7	1.4	1.1	1.0	9,4	6.7	6.4	6.1	× ×
LSD (.05)	2.3	3.0	2.8	4.2	1.6	9.0	0.5	0.7	9.0	0.3	1.3	9.0	2.1	1.2	9.0	1.1	8.0	60	12	0.6
										1									!	;

Various Locations
ŧ
(4 Year)
Averages
rain Yield
rain

9/4		•												
94-97 AVG	4	) r	) n	ים מ	0 7 8	0 4	- G		00 4	00 7	t 4	t 4 β α	, 4 5, 6	r ·
Watertown (2)	6.1	. v	, c	ט ת ז מ	ט ע	5 6	י ני	C	, c	, c	4 C	50	, <del>1</del>	
Oefrichs Brookings Watertown (3)	55	57	, r.	λ 5 α	5.0	2 6	5.0	9 4	47	4 4	. 4 . r.	50	43	' (
Oefrichs (3)	62	09	62	57	5 6	5 6	59	62	ים ו יכ	52	56	53	52	Ç
Martin (3)	57	53	55	55	51	56	49	47	57	54	47	49	51	•
Winner DLakes (4) (2)	40	42	36	41	35	38	45	35	38	35	35	35	36	90
Winner (4)	44	43	44	4	36	43	39	42	35	35	44	36	32	34
Hayes Bison Platte	51	22	20	56	53	50	47	49	54	50	53	49	46	45
Bison (3)	52	52	57	52	54	52	51	50	56	55	47	54	51	51
Hayes (3)	46	44	46	45	90	47	43	46	40	45	45	40	41 	4
Wall (2)	5.	49	53	48	53	48	51	4	45	50	52	47	39	39
Setby 3S) (3)	75	77	74	7.1	92	73	73	74	72	75	29	70	99	64
Selb ID (YEARS) (3)	Arapahoe	Nekota	Alliance	SD89153	SD89119	Niobrara	Vista	Siouxland	Rose	Seward	TAM 107	Dawn	Roughrider	Scout 66

### Test Weight Averages, 1993-1997

ID	(LOCS)	1993 (14)	1994 (9)	1995 (10)	1996 (8)	1997 (5)	94-97 AVG (32)	93-97 AVG (46)
SD89153			62.4	61.8	61.7	60.6	61.6	61.6
Rose		59.1	61.7	61.3	61.4	60.5	61.2	60.8
SD89119		59.3	61.9	61.1	61.0	60.0	61.0	60.7
Roughrider		59.4	61.2	60.4	61.6	59.4	60.7	60.4
Nekota		60.0	61.2	61.0	60.5	59.1	60.4	60.3
Scout 66		58.0	61.6	61.0	60.5	59.7	60.7	60.2
Dawn		58.3	61.2	60.2	59.8	59.1	60.1	59.7
Arapahoe		58.0	60.4	59.7	59.6	58.3	59.5	59.2
Siouxland		56.9	60.4	59.6	60.2	58.7	59.7	59.2
Vista		57.8	60.3	59.8	58.6	58.2	59.2	58.9
Seward		58.4	59.7	58.9	59.2	57.4	58.8	58.7
Alliance		57.6	59.8	59.7	58.9	56.9	58.8	58.6
Viobrara	e.		59.4	59.2	58.4	57.1	58.5	58.5
TAM 107		57.2	59.9	59.7	58.6	56.6	58.7	58.4

Heading, plant height, lodging, coleoptile length, leaf spot score, and protein data for selected entries in the South Dakota Crops Performance Testing (CPT) Variety Trial.

	Heading	Height	Lodging	Coleoptile	Leaf Spot	Protein	Protein	Protein	Protein	Protein
Name	(days)	(inches)	(score)	(% Scout66)	(score)	1993	1994	1995	1996	Average
Seward	171	42	2.5	86	3.3	12.0	12.0	11.5	12.5	12.0
Roughrider	167	41	5.3	106	1.5	12.5	13.4	13.0	13.8	13.2
Rose	166	39	3.3	103	1.8	12.6	13.0	12.2	13.6	12.9
SD89153	165	39	3.0	98	1.3		13.4	12.5	13.6	13.2
SD89119	165	38	5.0	94	2.8	12.5	13.2	12.6	14.3	13.2
Arapahoe	165	37	5.5	69	3.8	11.9	12.9	12.0	12.6	12.4
Siouxland	164	40	2.5	76	2.5	11.5	13.0	12.4	13.3	12.6
Nekota	162	34	1.8	74	2.5	12.2	12.8	12.4	13.2	12.7
Alliance	161	34	3.5	64	4.5	12.0	12.0	10.8	11.7	11.6
TAM 107	160	31	1.3	80	4.0	11.7	12.6	11.5	12.8	12.2

Table 5. Quality parameters of selected lines grown in South Dakota environments and tested at the Hard Winter Wheat Quality Laboratory, USDA/ARS, Manhattan, KS.

	ļ														7							-
	-																					
	ľ	ľ																		T		
1001	٦]																			8		
	1	Ì													6							
	1	-													9							
L	1	_													000							
	,	7	818	818		6/5	883	888	820	820	3 6	863	878	840	818	3 6	ç	φ.	042	CCO		
	ABG	ĝ	66.3	63.9	5 5	7.17	68.8	9.69	70.1	65.1		/o.	71.0	67.0	67.9	5 6	.i	3.4	202	0.00		
	Odd		10.3	11.3	111	11.1	11.8	11.8	10.8	10.2		10.5	11.9	11.1	10	7	9	5.7	111			
1996	MS	CIAT	87	20	ç	70 6	3	74	29	71	, 6	0	81	83	76		<b>3</b> 1	<u>_</u>	5	`		
	ASH	11017	0.39	0.49	0.43	7	0.45	0.54	0.48	0.49	77	-	0.41	0.42	0.46	0.04	5 1	0.46	0.45	;		
	Ϋ́		67.5	65.3	65.4	5 0	08.1	67.5	63.7	66.5	. 29	-	65.4	67.0	65.1	1.7		5.6	662			
	ΚW	3	6.87	27.9	27.9	1 6	2./7	29.5	31.9	30.4	25.0	4.0	33.5	31.6	29.4	1	} '	9,0	30.5	3		
	1.V		× ×	875	878	2	1070	935	860	805	1010		910	950	930	3,6	, ,	9	606	}		_
	ABS	,	5,70	70.1	21.6	,	4.C.	71.8	71.0	67.9	777	1 (	70.0	72.2	72.2	7		7.3	70.9			
	PRO	:	1.1.4	12.8	13.5	12.0	0.01	13.3	13.0	11.1	12.4	i	13.	12.7	12.7	9.0	,	4.0	12.6			
1995	MS	õ	6 i	%	85	0,0	1	0/	8	%	83	3 6	83	81	82	4	4	n	82			
	ASH	07.0	9 1	0.55	0.54	0.54		0.03	0.50	0.56	0.53		10.0	0.53	0.53	0.03	6.64	5.04	0.54			
	FY	74.2	7 .	74.2	75.1	73.7	4 0	10.0	75.7	75.7	74.5		7.4/	75.7	73.7	1.5	Ċ	7.0	74.9			
	ΚW	3 80	0.00	76.9	28.5	25.2	1 2	70.0	37.7	27.1	32.6	910	31.0	30.5	28.8	2.7	Ċ	2,2	29.5			
	LV	0P%	2 3	408	968	676		737	893	698	937		† .	904					668 668	61	2	-
	ABS	0 99		90.9	70.2	71.1		7.70	800	65.5	8.69	70.0	2 (	9./9					9.89	2.1	2.1	
	PRO	2 2		11.8	12.2	12.3			F	10.9	11.4	136		1T.8				,		0.5	2.7	
1995-1997	ASH MS	0.41 85		0.46 80	0.46 86	0.46 86			0.46 82	0.49 77	0.45 81	70 67 0		0.44 84					0.46 83	0.02 7	3.50 6	
6	FY AS	70.4 0.			70.2 0.	_					69.4 0.	70 9 07		11.2 0.						1.8 0.0	1.8 3.5	
	ΚW	28.5 7			`	27.2	•			_	32.7 6	37 4 7		7 9.67					. 8.67	2.7	6.4	
$\dashv$	U M	Alliance 2	_	_		Rose 2								ISLA		×.	<u> </u>	-	~	_		
		Allia	Arabahaa	or apo	Crimson	×	Ronohrider		oomooc	Sev	TAM 107	Tandem	**	>	Nursery Mean	Nursery St. Dev.	Nursery C V %		Subset Mean	Subset LSD (.05)	Subset C.V. %	

KW = Single kernel weight (mg); FY = Flour yield (percent of total product); ASH = Flour ash (percent at 14 % moisture basis); MS = Milling Score (100 point scale); PRO = Flour protein (percent at 14.0 % moisture basis); ABS = Bake absorption (14 % moisture basis); LV = Loaf volume.

REPRODUCE LOCALLY. Include form number and date on all reproductions.  U.S. DEPARTMENT OF AGRICULTURE  AGRICULTURAL MARKETING SERVICE  SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12  The following statements are made in accordance with the Privacy 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 193						
STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.	o determine if a plant variety prot C. 2421). Information is held confic 2426).					
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME					
South Dakota Agricultural Experiment Station	SD89153	Crimson					
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	2					
South Dakota State University Ag Hall 129	605-688-4149	6. FAX (include area code) 605-688-6065					
Brookings, SD 57007	7. PVPO NUMBER	000000					
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate b	1115	9800368					
	. · ·	X YES NO					
Is the applicant (individual or company) a U.S. national or U.S. based company:	· · · · · · · · · · · · · · · · · · ·						
If no, give name of country		X YES NO					
O. Is the applicant the original breeder? If no, please answer the following:							
a. If original rights to variety were owned by individually	<u>_</u>	YES NO					
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of co	untry						
	·						
<ul> <li>b. If original rights to variety were owned by a company:</li> <li>ls the original breeder(s) U.S. based company? If no, give name of coun</li> </ul>	try	YES NO					
	· · · · · · · · · · · · · · · · · · ·						
. Additional explantion on ownership (If needed, use reverse for extra space):							
EASE NOTE:							
nt variety protection can be afforded only to owners (not licensees) who meet one	of the following criteria:						
If the rights to the variety are owned by the original breeder, that person must be of a country which affords similar protection to nationals of the U.S. for the same		OV member country, or nation					
If the rights to the variety are owned by the company which employed the original ationals of a UPOV member country, or owned by nationals of a country which after and species.		e U.S. based, owned by als of the U.S. for the same					
f the applicant is an owner who is not the original breeder, both the original breede	or and the applicant must make	an afata ahaan 1977					
original breeder may be the individual or company who directed final breeding.	See Section 41(a)(2) of the F	ne of the above criteria. Plant Variety Protection Act fo					
reporting burden for this collection of information is		•					
reporting burden for this collection of information is estimated to average 10 minutes per response, including ining the data needed, and competing and reviewing the collection of information. Send comments regarding tions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie 2055 and form number in your letter.	the time for reviewing instructions, search	ing existing data sources, gathering ar					

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (2021 720-2791.

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employee.